Figure 1: Alignment of SCS006 to ABA90222, AAB40530 and ENSP277300

	SCS0006	LTAAEQSAER	AAMALARPGT	PDPQALASVL	LLLLWAPALS	LLAGTVPSEP
	AAB40530					
5	ABA90222					
	ENSP277300					
				COVERCEDATED	D0018000000	as a auroann
	SCS0006				RGCATQPCHH	
10	AAB40530				• • • • • • • • • •	
	ABA90222			COVECCDATE	DCC2 MODOUM	CALCUDOCAD
	ENSP277300	CASDPCA	PGTECQATES	GGIICGPMEP	RGCATQPCHH	GMLCALGGLD
15	scs0006	DMCEDCYCUD	GEOGRAPHIE	TOECASEPOH	HGATCRNLAD	RYECHCPLGY
13	AAB40530					
	ABA90222					
	ENSP277300				HGATCRNLAD	
	DADILITOR		-			
20						
	scs0006	AGVTCEMEVD	ECASAPCLHG	GSCLDGVGSF	RCVCAPGYGG	TRCQLDLDEC
	AAB40530			ASCLEGLGSF	RCLCWPGYSG	ELCEVDEDEC
	ABA90222			ASCLEGLGSF	RCLCWPGYSG	ELCEVDEDEC
	ENSP277300	AGVTCEMEVD	ECASAPCLHG	GSCLDGVGSF	RCVCAPGYGG	TRCQLDLDEC
25						
						a . nanmı . aa
	SCS0006				HCE REVLECA	
	AAB40530	ASSPCQHGGR	CLQRSD	P	ALYGG	VOAAFPGAFS
20	ABA90222	ASSPCQHGGR	CLQRSD	DOLOMOVECH	ALYGG	CARCEUMACC
30	ENSP277300	QSQPCAHGGT	CHDLVNGFRC	DCAGTGIEGT	HCEREVLECA	SAFCERNASC
	scs0006 ·	T.P.GT.GSFRCT.	CWPGYSGELC	EVDEDECASS	PCQHGGRCLQ	RSDPALYGGV
	AAB40530				PCLNGGHCQD	
35	ABA 90222				PCLNGGHCQD	
33	ENSP277300	LEGLGSFRCL				
	2					
	SCS0006	QAAFPGAFSF	RHAAGFLCHC	PPGFEGPTCE	EDVDECLSDP	CLHGGTCSDT
40	AAB40530		GFQCHC	PDGYAGPTCE	EDVDECLSDP	CLHGGTCSDT
	ABA90222		GFQCHC	PDGYAGPTCE	EDVDECLSDP	CLHGGTCSDT
	ENSP277300	QAAFPGAFSF	RHAAGFLCHC	PPGFEGPTCE	EDVDECLSDP	CLHGGTCSDT
40					TARMOTRED	econeviione
45	SCS0006	VAGYICROPE	TWGGRDCSVQ	LTGCQGHTCP	LAATCIPIFE LAATCIPIFE	SCAHSANCHC
	AAB40530	VAGIICROPE	TWGGRDCSVQ	LIGCOGHICE	LAATCIPIFE	SGVHSYVCHC
	ABA90222 ENSP277300	VAGIICACEE	TWGGRDCSVQ	T.TGCQGHTCP	LAATCIPIFE	SGVHSYVCHC
	ENSP2//300	VAGIICACEE	IMGGNDCSV	i Didefeniter		
50						
20	SCS0006	PPGTHGPFCG	ONTTESVMAC	SPIQASVPAG	GPLGLALRFR	TTLPAGTLAT
	AAB40530	PPGTHGPFCG	ONTTESVMAC	SPIQASVPAG	GPLGLALRFR	TTLPAGTLAT
	ABA90222	PPGTHGPFCG	QNTTFSVMAC	SPIQASVPAG	GPLGLALRFR	TTLPAGTLAT
	ENSP277300	PPGTHGPFCG	QNTTFSVMAC	SPIQASVPAG	GPLGLALRFR	TTLPAGTLAT
55						
	SCS0006					GHWHQVEVVL
	AAB40530	RNDTKES				• • • • • • • • • • •
	ABA90222	RNDTKESLEI	ALVAATLQAT	LWSYSTTVLV	LRLPDLA	COMPONENT
60	ENSP277300	RNDTKESLEI	, ALVAATLQA	LWSYSTTVLV	TREPUBLINE	GHWHQVEVVL
	scs0006	UT.APT DT.DTS	HECCENETO	J ASCPUAT.AST	TOAG.TOTARA	SSAQLGDATF
	AAB40530					·····
65	ABA90222				· · · · · · · · · · · · · · · · · · ·	
05	ENSP277300	HLATTELET.	HEGCPARIC	/ ASGPVALAS	ASATPLPAGI	SSAQLGDATF
	2					
	SCS0006	AGCLQDVRVI	GHLLLPEDLO	S ENVLLGCER	REQUEPLECA	GGSCVDLWTH

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AAB40530 SHAD90222 ENSP277300 AGCLQDVRVD GHLLLPEDLG ENVLLGCERR EQCRPLPCVH GGSCVDLWTH

5

5	SCS0006 AAB40530 ABA90222 ENSP277300				SASFLLQELP SASFLLQELP	
10	SCS0006 AAB40530 ABA90222 ENSP277300			• • • • • • • • • • • • • • • • • • • •	AEAPGSPAVV AEVPGSPAVV	
15	SCS0006 AAB40530 ABA90222 ENSP277300				QPWGGPFRGC	
20	SCS0006 AAB40530 ABA90222 ENSP277300	LPFFPLPLDN	SSQPSELGGR	QSWNLTAGCV	SEDMCSPDPC SEDMCSPDPC	FNGGTCLVTW
25	SCS0006 AAB40530 ABA90222	NDFHCTCPAN	FTGPTCAQQL	WCPGQPCLPP	ATCEEVPDGF	VCVAEATFRE
30	ENSP277300 SCS0006 AAB40530 ABA90222	GPPAAFSGHN	ASSGRLLGGL	SLAFRTRDSE	ATCEEVPDGF AWLLRAAAGA	LEGVWLAVRN
35	ENSP277300				AWLLRAAAGA	
40	SCS0006 AAB40530 ABA90222 ENSP277300				HRVRLAMERP HRVRLAMERP	
45	SCS0006 AAB40530 ABA90222 ENSP277300				AENFTGCLG.	
50	SCS0006 AAB40530 ABA90222 ENSP277300				APVCAPSPCL	
55	SCS0006 AAB40530 ABA90222 ENSP277300				RCHTHPDGRE	
60	SCS0006 AAB40530 ABA90222 ENSP277300		 		LPVPSK	• • • • • • • • • • • • • • • • • • • •
65	•					
70	SCS0006 AAB40530 ABA90222 ENSP277300		 			

	SCS0006	CICNARFSGQ	FCEVAKGLPL	PLPFPLLEVA	VPAACACLLL	LLLGLLSGIL
	AAB40530					
5	ABA90222 ENSP277300		FCEVAVS			
,	LUGILITOR	020				
	SCS0006	-	TYSPSQQEVA			
	AAB40530		• • • • • • • • •			
10	ABA90222	• • • • • • • • • •	• • • • • • • • • •			
	PMCD2773AA					

Figure 2: Alignment of SCS006 to Notch-2 preprotein (NP_077719)

	NOTCH_2_PR SCS0006	MPALRPALLW ALLALWLCCA APAHALQCRD GYEPCVNEG M CVTYHNGTGY
5	SCS0006	
	NOTCH_2_PR SCS0006	CKCPEGFLGE YCOHRDPCEK NRCQNGGTCV AQAMLGKATC RCASGFTGED LTAAEQSAER
10	SCS0006	
10	NOTCH_2_PR	CQYSTS HPCF VSRPCLNGGT CHMLSRDTYE CTCQVGFTGK ECQWTDACLS AAMALARPGT PD
	SCS0006	AANADARFGI FD
15	NOTCH_2_PR SCS0006	HPCANGSTCT TVANQFSCKC LTGFTGQKCE TDVNECDIPG HCQHGGTCLN .PQALASVLL LLLWAPALSL LAGTVPSEP
	5050000	. Pyrand val minnersion midty to the transfer of the transfer
20	NOTCH_2_PR SCS0006	LPGSYQCQCP QGFTGQYCDS LYVPCAPSPC VNGGTCRQTG DFTFECNCLPP SACASDPC APGTECQATE
20	5050006	
	NOTCH_2_PR SCS0006	GFEGSTCERN IDDCPNHRCQ NGGVCVDGVN TYNCRCPPQW TGQFCTEDVD
25	5050000	
	NOTCH_2_PR SCS0006	ECLLOPNACO NGGTCANRNG GYGCVCVNGW SGDDCSENID DCAFASCTPGSG GYTCGP
30		
•	NOTCH_2_PR SCS0006	STCIDRVASF SCMCPEGKAG LLCHLDDACI SNPCHKGALC DTNPLNGQYI
35	NOTCH_2_PR SCS0006	CTCPQGYKGA DCTEDVDECA MANSNPCEHA GKCVNTDG AF HCECLKGYAGQGPD
40	NOTCH_2_PR SCS0006	PRCEMDINEC HSDPCQNDAT CLDKIGGFTC LCMPGFKGVH CELEINECQS PRCEIDIDEC ASRPCHHGAT CRNLADRYEC HCPLGYAGVT CEMEVDECAS
	NOTCH_2_PR SCS0006	NPCVNNGQCV DKVNRFQCLC PPGFTGPVCQ IDIDDCSSTP CLNGAKCIDH APCLHGGSCL DGVGSFRCVC APGYGGTRCQ LDLDECQSQP CA HGGTCHDL
45		A THE STATE OF THE
	NOTCH_2_PR SCS0006	PNGYECQCAT GFTGVLCEEN IDNCDPDPCH HGQCQDGIDS YTCICNPGYM VNGFRCDCAGTGYE
50		CHARLES OF THE CHARLES OF THE PARTY OF THE CHARLES
	NOTCH_2_PR SCS0006	GAICSDQIDE CYSSPCLNDG RCIDLVNGYQ CNCQPGTSGV NCEINFDDCA GTHCEREVLE CASAPCEHN
	women a pp	SNPCIHGICM DGINRYSCVC SPGFTGQRCN IDIDECASNP CRKGATCING
55	NOTCH_2_PR SCS0006	ASCL EGLGSFRCLC WPGYSGELCE VDEDECASSP CQHGGRCLQ.
	NOMOU 3 PP	VNGFRCICPE GPHHPSCYSQ VNECLSNPCI HGNCTGGLSG YK CLCDAGWV
60	NOTCH_2_PR SCS0006	RSDPAL YGGVQAAFPG AFSFRHA

	NOTCH_2_PR SCS0006	GINCEVDKNE CLSNPCQNGG TCDNLVNGYR CTCKKGFKGY NCQVNIDECAAGFL CHCPPGFEGP TCEEDVDECL
5	NOTCH_2_PR SCS0006	SNPCLNQGTC FDDISGYTCH CVLPYTGKNC QTVLAPCSPN PCENAAVCKE SDPCLHGGTC SDTVAGYICR CPETWGGRDC SVQLTGCQGH TCPLAATC
10	NOTCH_2_PR SCS0006	SPNFESYTCL CAPGWQGQRC TIDIDECISK PCMNHGLCHN TQGSYMCECP IPIFES
15	NOTCH_2_PR SCS0006	PGFSGMDCEE DIDDCLANPC QNGGSCMDGV NTFSCLCLPG FTGDKCQTDM PGTHGPFCGQ NTTFSVMAGS PIQASVPAGGPL GLALRFRTTL
	NOTCH_2_PR SCS0006	NECLSEPCKN GGTCSDYVNS YTCKCQAGFD GVHCENNINE CTESSCFNGG PA GTLATRNDTK ESLELALVAA
20	NOTCH_2_PR SCS0006	TCVDGINSFS CLCPVGFTGS FCLHEINECS SHPCLNEGTC VDGLGTYRCS TLQATLWSYS TTVLVLRLPD LALNDGHWHQ VEVVLHLATL ELRLWHEGCP
25	NOTCH_2_PR SCS0006	CPLGYTGKNC QTLVNLCSRS PCKNKGTCVQ KKAESQCLCP SGWA GAYCDV ARL
30	NOTCH_2_PR SCS0006	PNVSCDIAAS RRGVLVEHLC QHSGVCINAG NTHYCQCPLG YTGSYCEEQL ATFAGCLQDV RVD GHLLLPEDLG ENVLLGCERR
35	NOTCH_2_PR SCS0006	DECASNPCQH G ATCSDFIGG YRCECVPGYQ GVNCEYEVDE CQNQPCQNGG EQCRPLPCVH GGSCVDLWTH FRCDCARPHR GPTCADEIPA ATFGLGGAPS
	NOTCH_2_PR SCS0006	TCIDLVNHFK CSCPPGTRGL LCEENIDDCA RGPHCLNGGQ CMDRIGGYSC SASFILQELP GPNLTVSFLL RTRESAGLLL QFANDSAAGL TVFLSE GRIR
40	NOTCH_2_PR SCS0006	RCLPGFAGER CEGDINECLS NPCSSEGSLD CIQLTNDYLC VCRSAFTGRH AEAPGSPAVV LPGRWDDGLR HLVMLSFGPD QLQDLGQHVH VGGRLLA
45	NOTCH_2_PR SCS0006	CETFVDVCPQ MPCLNGGTCA VASNMPDGFI CRCPPGFSGA RCQSSCGQVKADSQPW GGP FRGCLQDLRL DGCHLPFFPL PLDNSS.QPS
50	NOTCH_2_PR SCS0006	CRKGEQCVHT ASGPRCFCPS PRDCESGCAS SPCQHGGSCH PQRQPPYYSC ELGGRQSWNL TAGCVSEDMCSP DPCFNGGTCL VTWNDFHC
55	NOTCH_2_PR SCS0006	QCAPPFSGSR CELYTAPPST PPATCLSQYC ADKARDGVCD EACNSH ACQW TCPANFTGPT CAQQLWCPGQ P
	NOTCH_2_PR SCS0006	DGGDCSLTME NPWANCSSPL PCWDYINNQC DELCNTVECL FDNFECQGNSCLPPA TCEEVP
60	NOTCH_2_PR SCS0006	KTCKYDKYCA DHF KDNHCDQ GCNSEECGWD GLDCAADQPE NLAEGTLVIVD GFVCVAEATFREG

-	NOTCH_2_PR SCS0006	VLMPPEOLLQ DARSFLRALG TLLHTNLRIK RDSQGELMVY PYYGEKSAAMPPAAFSG HNASSGRLLG .GLSLAFRTR .DSEAWLLRAA AG
5	NOTCH_2_PR SCS0006	KKQRMTRRSL PGEQEQEVAG SKVFLEIDNR QCVQDSDHCF KNTDAAAALLAL EG G.SLAGGVR
10	NOTCH_2_PR SCS0006	ASHAIQGTLS YPLVSVVSES LTPERTQLLY LLAVAVVIIL FIILLGVIMA GGHGLPGAVLPI
15	NOTCH_2_PR SCS0006	KRKRKHGSLW LPEGFTLRRD ASNHKRREPV GQDAVGLKNL SVQVSEANLI PGPRVADGAW HRVRLAMERP AAATSR
20	NOTCH_2_PR SCS0006	GTGTSEHWVD DEGPQPKKVK AEDEALLSEE DDPIDRRPWT QQHLEAAD IR
	NOTCH_2_PR SCS0006	RTPSLALTPP QAEQEVDVLD VNVRGPDGCT PLMLASLRGG SSDLSDEDEDAATPVALRGL ASDLG
25	NOTCH_2_PR SCS0006	AEDSSANIIT DLVYQ GASLQ AQTDRTGEMA LHLAARYSRA DAAKRLLDAG
30	NOTCH_2_PR SCS0006	ADANAQDNMG RCPLHAAVAA DAQGVFQILI RNRVTDLDAR MNDGTTPLILGAVRILL AENFTGCLGR H
35	NOTCH_2_PR SCS0006	AARLAVEGMV AELINCQADV NAVDDHGKSA LHWAAAVNNV EATLLLLKNGFASWPGTP APILGCRGAP
40	NOTCH_2_PR SCS0006	ANRDMQDNKE ETPLFLAARE GSYEAAKILL DHFANRDITD HMDRLPRDVA ACRDLFDAFAC ACG PGWEGPRCEAHVD PCHSAPCARG
	NOTCH_2_PR SCS0006	RDRMHHDIVR LLDEYNVTPS PPGTVLTSAL SPVICGPNRS FLSLKHTPMG RCHTHPDGRFECRC PPGFGGP
45	NOTCH_2_PR SCS0006	KKSRRPSAKS TMPTSLPNLA KEAKDAKGSR RKKSLSEKVQ LSESSVTLSP .RCRLP VPSKECS LNVTCLDGSP
50	NOTCH_2_PR SCS0006	VDSLESPHTY VSDTTSSPMI TSPGILQASP NPMLATAAPP APVHAQHALS CEGGSPAA NCSCLEGLAGQRCQVPT LPCEANPCLN
55	NOTCH_2_PR SCS0006	FSNLHEMQPL AHGASTV LPS VSQLLSHHHI VSPGSGSAGS LSRLHPVPVPGGTCRAAGG VSECICNARF SGQFCE VAKGLPLPLP
60	NOTCH_2_PR SCS0006	ADWMNRMEVN ETQYNEMFGM VLAPAEGTHP GIAPQSRPPE GKHITTPREPFPLL EVAVPAACAC LLLLLLGLLS GILAARKRR.
- -	NOTCH_2_PR SCS0006	LPPIVTFQLI PKGSIAQPAG APQPQSTCPP AVAGPLPTMY QIPEMARLPSQSEG TYSPSQQEVA GARLEMDSVL KVPPEERLI.

5	NOTCH_2_PR SCS0006	VAFPTAMMPQ	QDGQVAQTIL	PAYHPFPASV	GKYPTPPSQH	SYASSNAAER
	NOTCH_2_PR SCS0006	TPSHSGHLQG	EHPYLTPSPE	SPDQWSSSSP	HSASDWSDVT	TSPTPGGÅGG
10	NOTCH_2_PR SCS0006	GQRGPGTHMS	EPPHNNMQVY	A .		